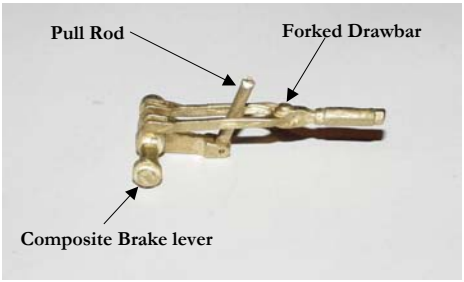
Merchant Navy 5000 Gall Tender

12th November 1999

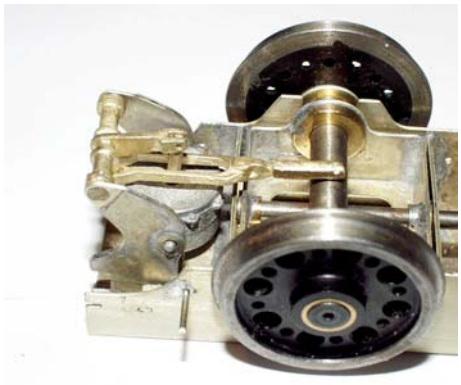
Make up two sets of Vac Pull Rod gear as follows :



Shorten the Vac pull rod to about 9mm and drill and pin to the composite brake lever. Ensure rod can articulate.
Similarly drill and pin the main forked drawbar to the barke lever. Again ensure the drawbar can articulate. Clean up and set aside.

Repeat for the second set.

Assemble the Brake Shoes to all the hangers. Drill both the hanger and the shoes with a 0.8mm drill (1/32") and pin together using 1/32" brass pin.



Assemble the Vac Pull Rod gear made earlier to the mounting brackets in the chassis.

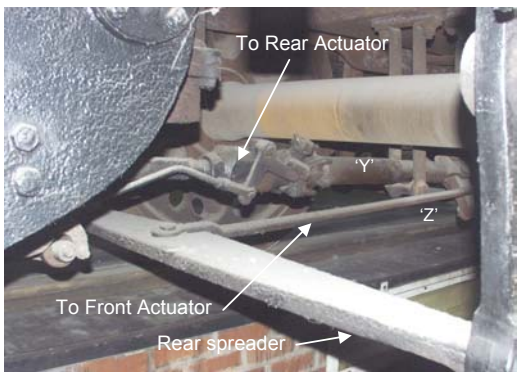
Assemble the hangers to the chassis. You will need to drill out the existing holes in the chassis with 1mm drill. Adjust the Hanger and Shoe to clear wheel.

Assemble the spreaders to the hangers. Solder in position , ensure they sit parallel, re-adjust the hanger if necessary.

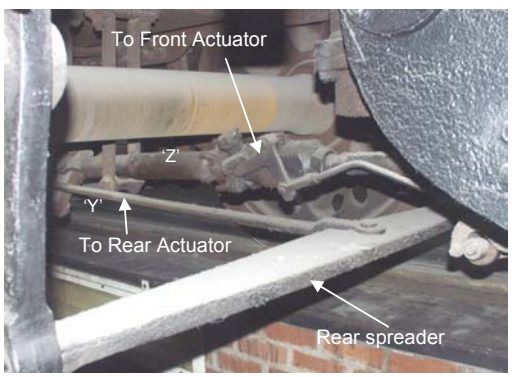
The tender has two vac cylinders ; one at each end of the tender.
Each vac cylinder pulls three brake spreaders one for each axle. Because the action line is at the centre of each spreader, the yoke clusters require leaning at an angle in order for the rodding to pass. See the illustration for a complete line of spreaders placed in order for one vac cylinder. Assemble using 0.8mm wire for the pull rods.

The following pictures shown the brake rodding layout in more detail.

View in direction of arrow 'A'. Rear brake spreader
Please refer to the diagram on the next page



View in direction of arrow 'F'. Front brake spreader
Please refer to the diagram on the next page



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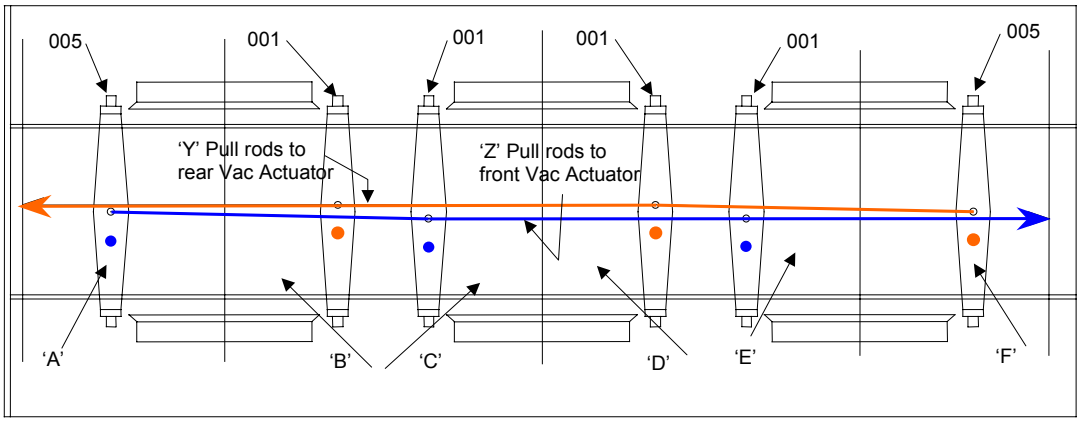
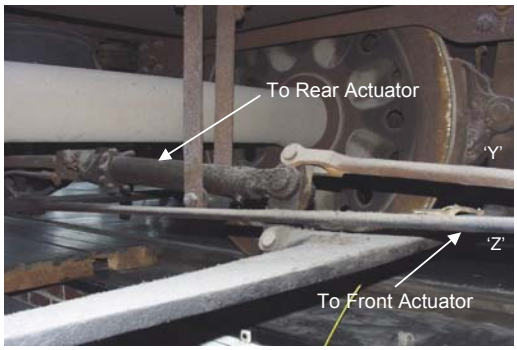
Back

Plan view of Tender chassis

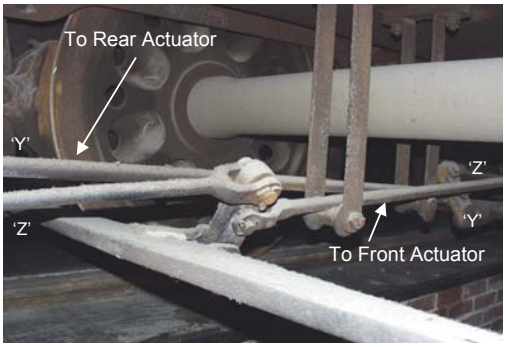
Front



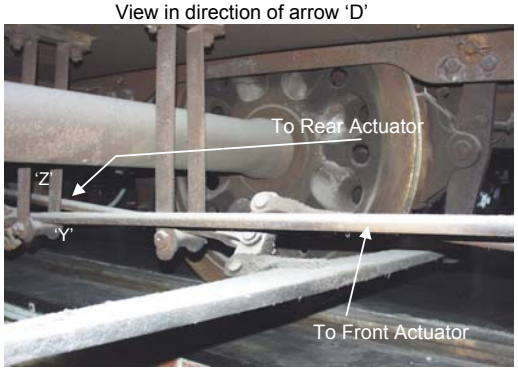
View in direction of arrow 'B'



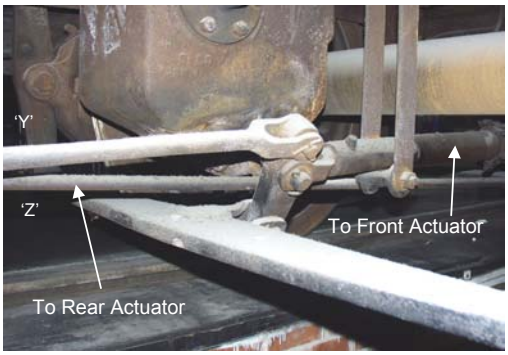
View in direction of arrow 'C'



View in direction of arrow 'D'



View in direction of arrow 'E'



Side view between the wheel sets showing the brake rodding crossing through.